

Name \_\_\_\_\_

## Unearthing the Mysteries of Minerals and Gems

### Multiple Choice Questions

1. What are the defining characteristics of a mineral?
  - a. It must be artificially created.
  - b. It must have a random chemical composition.
  - c. It must be naturally occurring and have a defined chemical composition.
  - d. It must be a liquid at room temperature.
  
2. Which geological process is primarily responsible for the formation of silicate minerals?
  - a. Sedimentation
  - b. Metamorphism
  - c. Igneous rock cooling and solidification
  - d. Weathering
  
3. What exceptional qualities determine the value of a gemstone?
  - a. Its weight in carats
  - b. Its hardness
  - c. Its clarity, color, and brilliance
  - d. Its size and cut
  
4. What is the main use of gemstones in technology?
  - a. As building materials
  - b. In electronic devices and lasers
  - c. For creating sculptures
  - d. As fuel sources
  
5. What is the primary geological process responsible for the formation of gems?
  - a. Volcanic eruptions
  - b. Subduction of tectonic plates
  - c. Sedimentary deposition
  - d. Precipitation from hydrothermal fluids

